

POPOVA, S.L.; MIZHENKOVA, Ye.D.; VIKROV, A.N.

Improvement in the properties of net rigging materials by treating them with the organosilicon preparation FO. Trudy VNIRO no.47119/216 '62. (MIRA 18:4)

VOLKOV, A.N.

Introducing new techniques and equipment in the factories
of synthetic fibers. Khim. volok. no.3:5-8 '63.
(MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusst-
vennogo volokna.

(Textile fibers, Synthetic)
(Textile machinery)

VOLKOV, A.N., kand.tekhn.nauk; BELAN, N.A., inzh.

Adjusting device for long-stroke drills. Sbor. KuzNIUI no.8:
5-22 '61. (MIRA 16:3)
(Kuznetsk Basin—Boring machinery—Equipment and supplies)

VOLKOV, A. N. (Moskva)

Inve. gating strained state of a toroidal shell. Inzh. zhur. 2
no.4. 2-320 '62. (MIRA 16:1)

1. Institut mekhaniki AN SSSR.

(Elastic plates and shells)

VOLKOV, A. N.

ACCESSION NR: AP3000719

S/0258/63/003/002/0331/0336

AUTHOR: Volkov, A. N. (Moscow)

TITLE: Contact problem in the conjunction of a toroidal shell with an annular plate

SOURCE: Inzhenernyy zhurnal, v. 3, no. 2, 1963, 331-336

TOPIC TAGS: contact conditions, bellow-type shells, corrugated cylindrical shells

ABSTRACT: A solution is presented of a system of simultaneous equations describing the boundary and contact conditions in the blending points of a bellow-type shell (see Fig. 1 of Enclosure) under internal pressure. The shell has been constructed by combining elements of a toroid (1) and (4) with annular plates (2). A modification of A. I. Gol'denveyzer's method of indeterminate exponents is used to establish expressions for forces, moments, displacements, and slopes in toroid-plate contact points 3 and 2 and in the boundary toroid points 4 and 1 by introducing three small

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ACCESSION NR: AP3000719

Parameters -- thickness-to-radius ratio h/r , pitch, and height of corrugation -- and by expressing the second and third parameters as fractional power functions of h/r . The selection of small-parameter exponents is based on consistency conditions in solving the initial simultaneous equations. As a result, a considerably simplified system of equations is obtained. The method is also advantageous in distinguishing stresses of primary and secondary significance. The method can be applied in analyzing stress distribution in arbitrary thin-walled structures by utilizing the contact conditions in joints of its elements. Orig. art. has: 1 figure and 26 formulas.

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics AN SSSR)

SUBMITTED: 05May62

DATE ACQ: 21Jun63

ENCL: 01

SUB CODE: 00

NO REF SOV: 003

OTHER: 000

Card 2/3

ACCESSION NR: AP3000719

ENCLOSURE: 01

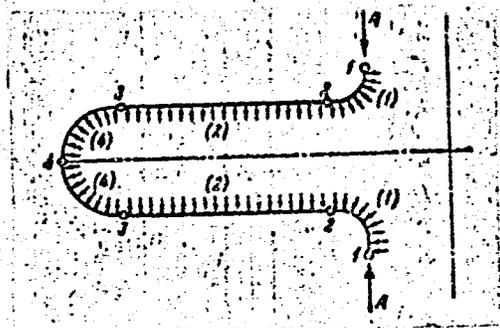


Fig. 1. Diagram of bellow-type shell

Card 3/3

SHOSTAKOVSKIY, M. F.; BOGDANOVA, A. V.; VOLKOV, A. N.

Interaction of vinyl ethers with furan and 2-methylfuran.
Izv. AN SSSR Otd. khim. nauk no.12:2224-2226 D '62.
(MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Ethers) (Furan)

VOLKOV, A. N., kand. tekhn. nauk

Conference on the Theory of Shells and Plates. Vest. AN SSSR 33
no.1:123 Ja '63. (MIRA 16:1)

(Elastic plates and shells)
(Physics—Congresses)

TARASEVICH, Yu.N.; VOLKOV, A.N.; TABOYAKOV, A.Ya.

Geology of the Poronaysk Lowland on Sakhalin. Dokl. AN SSSR
155 no. 3:573-575 Mr '64. (MIRA 17:5)

1. Sakhalinskoye geologicheskoye upravleniye. Predstavleno
akademikom A.L.Yanshinyam.

VOLKOV, A.N. (Moskva)

Design of a closed short cylindrical shell with an arbitrary cross
section. Inzh.zhur. 1 no.2:204-208 '61. (MIRA 14:12)

1. Institut mekhaniki AN SSSR.
(Elastic plates and shells)

SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; VOLKOV, A.N.

Vinyl compounds in diene synthesis. Report No.10 Interaction
between divinyl ether and anthracene. Izv. AN SSSR Otd.
khim.nauk no.2:346-350 F '62. (MIRA 15:2)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Vinyl ether)
(Anthracene)

27218

S/081/61/000/014/019/030
B117/B203

5.3306

AUTHOR: Volkov, A. N.

TITLE: Catalytic and high-temperature alkylation of isobutane and butane with ethylene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 14, 1961, 416, abstract 14/11. (Sb. Materialy i Konferentsii molodykh nauchn. sotrudn. (Vost.-Sib. fil. Sib. otd. AN SSSR) no. 3, Blagoveshchensk, 1960, 11-18)

TEXT: The author studied the effect of temperature, amount of catalyst, and reagent ratio on the catalytic alkylation of isobutane (I) with ethylene. He found optimum reaction conditions, and determined the lifetime of the catalyst. The yield in 2,3-dimethyl butane is much smaller in the alkylation of the isomerization product of the butane fraction from the factory than in the alkylation of (I). The author studied the effect of temperature, pressure, supply rate of mixture, and amount of catalyst on the yield in 2,2-dimethyl butane in thermal alkylation of (I) with ethylene. He obtained 3-methyl pentane in continuous high-temperature

Card 1/2

Catalytic and...

alkylation of butane with ethylene.
translation.]

27218
S/081/61/000/014/019/030
B117/B203

[Abstracter's note: Complete

X

Card 2/2

VOLKOV, A.N.

[Fishing nets of caprone] Rybolovnye seti iz kaprona. Moskva,
Pishchepromizdat, 1953. 46 p. (MLRA 7:5)
(Nets) (Nylon)

VOLKOV, A.N.; MAMAYEV, K.A.

For a Leninist attitude in respect to nature. Biol. v shkole
no. 6:3-7 N-D '60. (MIRA 14:1)

1. Chleny Vserossiyskogo obshchestva sodeystviya okhrane
prirody i ozeleneniyu naselennykh punktov.
(Natural resources) (Student activities)

UOLKov, A.N.

5(3)

AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

807/63-4-3-19/3

Mogilevskiy, Ye.M., Candidate of Technical Sciences, Pinger, G.D.
Scientific-Technical Conferences and a Seminar on the Production and
Processing of Chemical Fibers

Doklady Akad. Nauk SSSR, 1959, Vol. 4, No. 3,
pp. 398-401. (USSR)

In November-December 1958 the All-Union Scientific-Technical Conference on Problems of the Application of Chemical Fibers in the Textile, knit goods and Handweaving Industry took place with the participation of the USSR State Academy of Sciences (All-Union Chemical Society Iseni Mendeleev). It was attended by 250 representatives of plants and scientific research institutes of scientists from China, Hungary, Poland and Czechoslovakia. The deputy of the president of the USSR N.A. Petrov pointed out that technical processing methods are necessary. A.N. Volkov (Upravleniye nauchnymi issledovaniyami v oblasti khimicheskogo volokna Goskumiteta Soversha Ministrov SSSR) in the USSR Council of Ministers) presented a paper on the state and development of the production of chemical fibers in the USSR; Professor Z.A. Borozin (Moscow Institute of Textile Industry - Moscow Textile Institute) on technical methods of developing the production of chemical fibers; Professor A.M. Kabanov (VNIIT) on modern methods of studying the properties of chemical fibers; Candidates of Technical Sciences S. I. P. Kabanov (USSR) and The Production of Newer Materials From Synthetic Fibers; Professor Y. Ye. Zuev (Moskva) on stability of textile - Moscow Textile Institute) on the basic properties of natural fibers, especially wool, with chemical ones; N.Ye. Akhina (USSR) on preparing staple yarn from fine viscose fibers; Professor L.A. Demina (Moscow Textile Institute) on the effect of breaking staple yarn on its physical-chemical properties; A.I. Golod (Moskva) on processing staple fibers in his plant; N.A. Orlov (VNIIT) on the production of chemical fibers; Doctor of Technical Sciences A.M. Kabanov (VNIIT) on the problems of designing and introducing new types of technical equipment. The Conference noted the backwardness in the development of equipment for efficient spinning, weaving and finishing equipment, the insufficient calculation of work and the lack of necessary laboratory equipment. On November 25-27, 1958, the All-Union Conference of workers of the Ministry of Chemical Fibers took place.

Card 1/6

Card 2/6

VOLKOV, A.N.

- In synthetic fiber plants. Khim.volok. no.1:49 '59.
(MIRA 12:8)
1. Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii.
(Textile fibers, Synthetic)

VOLKOV, A. N., SED'KO, A. P.

Coal-Mining Machinery.

Drift-drilling combine ShBM-1. Mekh. trud. rab. 6 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 195~~2~~ Uncl.

USHAKOV, I.A., inzhener; VOLKOV, A.N., inzhener.

Operating efficiency of the KS-2 combine. Mekh. trud. rab. 7 no.11:
24-26 D '53. (MLBA 6:12)

(Coal-mining machinery)

VOLKOV, A.M.

4235. OPERATION OF THE PKO-1 CUTTER-LOADER IN RUSSIA. Volkov, A.M.

2

vertical spindle cutters which are 1.5 m wide at the base. The machine runs on two caterpillar tracks and has a third at the top which is engaged automatically. A work conveyor takes the material from the machine. The speed of travel is 20 m per/24. A speed of 120 m per/24 is also possible. A speed of 120 m per/24 is also possible.

10.6100

S/258/62/002/004/013/019
E081/E135.

AUTHOR: Volkov, A.N. (Moscow)

TITLE: Investigation of the stress-strain state of a toroidal shell

PERIODICAL: Inzhenernyy zhurnal, v.2, no.4, 1962, 312-320

TEXT: The basic equations appropriate to a toroidal shell are formulated in terms of a resolving function due to V.V. Novozhilov (Teoriya tonkikh obolochek (Theory of thin shells), Sudpromgiz, 1951), and expressions are derived for the bending moments, strains, deflection angle, and displacements. Points on the shell at which the radius of curvature shows singularities are identified. The stress state in the shell can be resolved into three elements: 1) generalised momentless stress state; 2) stress state due to pure moments; 3) edge effects, the theory of which has been developed by A.L. Gol'denveyzer (Teoriya uprugikh tonkikh obolochek (Theory of elastic thin shells), Gostekhteorietizdat, 1953). The generalised momentless state consists of two components due respectively to surface and edge loading. The Gol'denveyzer edge effects are investigated in
Card 1/2

✓B

Investigation of the stress-strain... S/258/62/002/004/013/019
E081/E135

detail, and graphs showing their behaviour and variation in the
shell are reproduced.
There are 5 figures.

LB

ASSOCIATION: Institut mekhaniki AN SSSR
(Institute of Mechanics, AS USSR)

SUBMITTED: April 4, 1962

Card 2/2

KOTLYAREVSKIY, I.L.; FISHER, L.B.; ZANINA, A.S.; TERPUGOVA, M.P.;
VOLKOV, A.N.; SHVARTSBERG, M.S.

Synthesis of some monomers over aluminochromium catalysts.
Izv.vys.ucheb.zav.; khim.i khim.tekh 2 no.4:608-613
'59. (MIRA 13:2)

1. Vostochno-Sibirskiy filial Sredneaziatskogo otdeleniya
AN SSSR.

(Butadiene) (Catalysis)

124-58-9-9677

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 30 (USSR)

AUTHOR: Volkov, A. N.

TITLE: Vibrations of a Cylindrical Shell in a Flow of a Perfect Fluid
(Kolebaniya tsilindricheskoy obolochki v potoke ideal'noy zhidkosti)

PERIODICAL: Sb. tr. Mosk. inzh. -stroit. in-t, 1957, Nr 27, pp 3-11

ABSTRACT: An examination of the transverse vibrations of a short cylindrical shell in a potential three-dimensional flow of a perfect fluid. The velocity potential of the flow within a tube (shell) and the pressure of the fluid on the walls of the shell are determined. The author utilizes the expression for the pressure on the walls of the shell to integrate the system of differential equations that describes the deformed state of a shell with hinge-supported ends (according to V. Z. Vlasov) and determines the frequency of the transverse vibrations of the shell for a special case of zero flow velocity. The results obtained afford a means for the approximate estimation of the influence of the entrained fluid mass on the vibrational frequency of a shell. In conclusion a case is examined in which the fluid flow

Card 1/2

124-58-9-9677

Vibrations of a Cylindrical Shell in a Flow of a Perfect Fluid

is outside the shell. In that case also, an approximate formula is obtained for the frequency of vibration.

Yu. M. Guliyev

1. Cylindrical shells--Vibration 2. Fluid flow--Analysis 3. Differential equations
--Applications 4. Approximate computation--Applications

Card 2/2

Volkov, A. N. Die Schwingung einer Zylinder-Schale
in der Strömung einer idealen Flüssigkeit. Apl. Mat.
3 (1958), 161-169. (Czech. Russian and German sum-
maries) 2

The effect of the mass of a surrounding acoustic
medium on the frequency of the free vibrations of a sub-
merged thin cylindrical shell is investigated under various
simplifying assumptions. The author is apparently un-
aware of the numerous papers dealing with various
aspects of free and forced vibrations in submerged shells,
published in this country since 1952, with results that go
far beyond those obtained by the author. 21

A. M. Freudenthal (New York, N.Y.)
JL

Vol. Kov, A. N.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jun - 1 Feb '60.

- 35. B. K. Berezin (Minsk): On the solution of the elastostatic problem for a half-space under conditions of axial symmetry.
- 36. J. Brilla (Bratislava): Anisotropic plates with discontinuous supports.
- 37. B. K. Bregda (Moscow): On the essential non-linearity of certain problems of column stability.
- 38. E. G. Budini (Kiev), S. I. Kravchenko (Moscow): On the determination of safety factors under alternating random loads.
- 39. A. I. Burdakov (Moscow): An experimental investigation of creep of various polymer models.
- 40. E. P. Burdakov (Kiev): On the stability of nonrotational-type anisotropic circular ring plates.
- 41. M. M. Buzin, V. A. Buzin, S. I. Kravchenko: The field of application of anisotropy.
- 42. B. K. Buzin (Kiev): The state of stress of lamellar systems of regular configuration.
- 43. V. V. Kabanikh (Moscow): Rheological properties of mixtures as a basis of their rheological characteristics.
- 44. G. A. Kabanikh, G. M. Kabanikh (Kiev): Applications of mixture rheology to the investigation of shells.
- 45. E. M. Kabanikh (Kiev): Determination of stresses and deformations in viscid bodies.
- 46. B. V. Kabanikh (Kiev): The flow of mixtures and filled bitumens in pipes.
- 47. E. I. Kabanikh, V. I. Kabanikh (Kiev): Applications of mixture rheology to the theory of elasticity.
- 48. E. I. Kabanikh (Kiev), V. I. Kabanikh (Kiev): Experimental investigation of the behavior of anisotropically compressed short columns for long loading times.
- 49. G. V. Kabanikh (Moscow), A. I. Kabanikh (Kiev), E. I. Kabanikh (Moscow): Investigation of soft plastic bodies under combined states of stress.
- 50. G. V. Kabanikh (Moscow), E. I. Kabanikh (Moscow): Basic rheological properties of plastic materials.
- 51. G. V. Kabanikh (Moscow): Fundamentals of the linear theory of viscoelastic impact.
- 52. I. I. Kabanikh (Kiev): The solution of dynamic contact problems for foundation using a simplified method.
- 53. B. K. Kabanikh (Moscow): On the equilibrium equations of thick elastic plates.
- 54. E. K. Kabanikh (Kiev): The creep of ice and frozen soils under combined stresses.
- 55. E. K. Kabanikh, G. I. Kabanikh, E. I. Kabanikh, E. I. Kabanikh (Moscow): Study of viscoelastic properties of porous bodies (e.g. part) by the ultrasonic pulse method.
- 56. E. K. Kabanikh (Moscow), A. K. Kabanikh (Kiev): The plane flow of visco-plastic medium between two plates forming an acute angle.
- 57. E. K. Kabanikh, E. I. Kabanikh (Moscow): Rheological and dynamic properties of visco-plastic dispersed media past bodies of different shape.
- 58. E. K. Kabanikh (Moscow): On the analysis of a short closed cylindrical shell.
- 59. G. D. Kabanikh, E. A. Kabanikh (Kiev): On the distribution of elastic constants in quasi-isotropic polycrystalline media.
- 60. E. K. Kabanikh (Moscow): A statistical method in the stability theory of shells.
- 61. E. I. Kabanikh (Moscow), A. I. Kabanikh (Kiev), E. I. Kabanikh (Moscow): On stress concentration in a plate with an arbitrary number of holes.
- 62. E. K. Kabanikh (Kiev): Foundations of the general engineering theory of elastic bodies.
- 63. E. K. Kabanikh (Moscow): The laws of deformation of ice.
- 64. E. K. Kabanikh (Moscow): The laws of motion of ice crystals and the theory of visco-plastic flow based on research in the Antarctic.
- 65. M. D. Galkov (Kiev): A method of obtaining polynomial stress and displacement functions.
- 66. E. I. Galkov (Kiev): A contribution to the theory of the finite deformations of thin shells.
- 67. M. D. Galkov (Moscow): The propagation of elastoplastic bending and shear waves in the asymptotical deformations of shells.

УДК 62-50 А.Н

PLATE I BOOK EXPLANATION 80V/1000 80V/12-4-27

Аннотация к книге ССРС. Краткое содержание
 Издательство: М. 27 (Engineering Collection, Vol. 27) Moscow, Ltd-vo
 M SSSR, 1960. 210 p. 2,000 copies printed.
 Sponsoring Agency: Akademiya nauk SSSR. Occasionaly tablicheskimi znanii.
 Repr. Ed.: A. A. Il'yushin; Ed.: V. M. Akhmedov; Ed. of Publishing House:
 V.M. Akhmedov; Tech. Ed.: A.P. Oshera.

PURPOSE: This book is intended for engineers, applied physicists, and ap-
 plied mathematicians.
 CONTENT: The book consists of 24 articles on such problems as stress theory,
 dynamic flow, theory of shells, stability, plasticity and elasticity,
 the bending of thin plates and shells, and various aspects of applied
 mathematics. No personalities are mentioned. References accompany most of
 the articles.

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AVAILABLE: Library of Congress

VOLKOV, A.N.

3(113)
 AUTHOR: Kotlyarskiy, I. I., Fisher, L. B., Zinina, A. S., Zvereva, M. P., Volkov, A. N., Zhvartberg, M. S.
 TITLE: Synthesis of Several Monomers on Alumochromium Catalysts
 PERIODICAL: Ivestiya vysshikh uchebnykh zavedykh. Khimiya i khimicheskaya tekhnologiya, 1959, Vol. 2, No. 4, pp 600 - 615 (USSR)
 ABSTRACT: A report on this paper was given at the All-Union Conference on Ways of Synthesis of Initial Products for the Production of High Polymers which took place in Leningrad from September 29 to October 2, 1958. The authors' results of the catalytic synthesis of 2,3-dimethyl-butadiene, as well as of monomers of the type of p-xylene from acetyl, as well as of monomers of the substance mentioned at first in derivatives are given. The special rubber types (Ref 1) could not be obtained by the production methods so far used. The diagram (see Diagram) being worked at by the authors consists of two stages. The first one (Ref 2) yielded not more than 1% of the end product. In spite of numerous patents (Ref 3), a thorough description of reaction conditions is still missing. Therefore, the authors determined the optimum conditions of isobutane alkylation with ethylene

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in the presence of aluminum chloride. Under these conditions (48 - 51°, 7 - 9 atm, 1.5 M isobutane, 145 g ethylene, 40 g $AlCl_3$, 5 g $AlCl_3$ 2 hours) the yield of 2,3-dimethyl-butane rises to 47%. The reaction is very sensitive to temperature (only 1/3 of the alkylate yield at 55°). The catalyst can be used 5 to 6 times without reducing the quantity of alkylate or whole process; its partial pressure must not exceed 0.5 - 0.7 atm, or otherwise the 2,3-dimethyl-butane content in the alkylate decreases rapidly. The addition of 1-3% C_2H_5Cl accelerates the process. Isobutane alkylation with ethylene at a high temperature proceeds at a pressure of 100 - 200 atm according to a radical mechanism, and is accelerated by radical donors. It was carried out by the authors in the presence of C_2H_5Cl (for the first time) in a special, continuously working plant. The alkylate yield (computed for ethylene) reached 170-180% under optimum conditions (450°, 200 atm, reaction time 25 minutes, weight ratio isobutane/ethylene = 10 : 1, initiator quantity 2.5%). 2,3-Dimethyl-butane (32-35% of the alkylate) was the

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main product; 2,3-dimethyl-butene amounted to 8-10% of the alkylate. The preparation of 2,3-dimethyl-butadiene-1,3 from 2,3-dimethyl-butane proceeds in two stages: a) hydration with the formation of two olefines: 1) tetramethyl-ethylene, and 2) 2,3-dimethyl-butene-1. b) Dehydration of the olefines to the end product. This reaction has not been considered in publications (except for the reference in the patent (Ref 5)). The authors investigated the first stage thoroughly on an alumochromium-potassium catalyst. The specifications for its production are provided by M. S. Marudkin (deceased) (ICEN AN SSSR - Institute of Organic Chemistry AS USSR). This catalyst showed the highest activity at 550°. The catalytic reached a 97% yield with a content of unsaturated hydrocarbons of 60-55%. The investigation of the second stage has not yet been completed. An aromatization diagram of divinyl-acetylene-hydrocarbons is given. Several mono-, bi-, and tricyclo hydrocarbons with a prescribed structure were produced on the basis of the diagram. A diagram of the reactions of the synthesis of p-xylene from acetylene and acetone is suggested. Since there is no demand for acetone in the USA because of increasing phenol production,

Card 3/4

the price according to the Sergeyev method is already 1/3 - 1/4 of the present one, the synthesis method mentioned above might become useful for industry. In conclusion, a simple way of synthesis for polyphenyl systems is suggested. Moreover, the Sverdlovsk reaction is mentioned in the paper. There are 11 references, 5 of which are Soviet.

ASSOCIATION: Yuzhno-Sibirskiy filial SO AN SSSR (East Siberian Branch of the Siberian Department of the Academy of Sciences, USSR)

KOTLYAREVSKIY, I.L.; VOLKOV, A.N.; FISHER, L.B.

Laboratory method for producing 2,3-dimethylbutane by the alkylation
of isobutane by ethylene. Izv. Sib. otd. AN SSSR no.3:62-66 '59.
(MIRA 12:8)

1.Vostochno-Sibirskiy filial Sibirskogo otdeleniya Akademii
nauk SSSR.

(Butane) (Ethylene) (Alkylation)

KOTLYAREVSKIY, I.L.; VOLKOV, A.N.; FISHER, L.B.

Alkylation of butane and isobutane by ethylene. *Izv.Sib.otd.*
AN SSSR no.4:64-70 '59. (MIRA 12:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya Akademii
nauk SSSR.
(Butane) (Ethylene) (Alkylation)

SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; VOLKOV, A.N.

Vinyl compounds in diene synthesis. Report No.12: Structural selectivity of the diene condensation of vinyl ethers with isoprene. Izv.AN SSSR Otd.khim.nauk no.7:1254-1258 J1 '62. (MIRA 15:7)

1. Institut organicheskoy khimii N.D.Zelinskogo AN SSSR.
(Vinyl compounds) (Isoprene)

VOLKOV, A.N. (Moskva)

Determining longitudinal rigidity of corrugated shells in connection with the design of sylphons. Inzh.zhur. 2 no.2:368-372 '62. (MIRA 15:6)

1. Institut mekhaniki AN SSSR.
(Elastic plates and shells)

SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; VOLKOV, A.N.

Vinyl compounds in diene synthesis. Report No.8: Diene synthesis
of vinyl ethers and thio ethers with anthracene. Izv.AN SSSR.Otd.-
khim.nauk no.11:2072-2074 N '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ethers) (Sulfides) (Anthracene)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

COMMON ELEMENTS
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

PREPARED AND PRINTED IN THE U.S.S.R.

ca

Laterite weathering of certain Upper Devonian rocks in the Tikhvin region. A. N. Volkov. *Trans. Central Geol. Prospecting Service (U. S. S. R.)* 351, 1-67 (1932); *Revue Geol.* 17, 316. - Chem. and mineral studies show that the Tikhvin laterite deposit resulted from lateritic weathering *in situ* and does not represent transported material. Upper parts of the section show decrease of SiO₂, alkalis and alk. earths, while combined H₂O and Al₂O₃ increase. J. F. Schairer.

NATIONALS INDEX
ASO.S.S.A. METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

7

ca

New boron deposits in the Indersk area of the western Kazakhstan district. A. N. Volkov. *Razvedka Nolt (Subterranean Prospecting) 4, No. 2, 24-8(1935).* The *hydroboracite* found in this district contained: SiO₂ 0.84, TiO₂ none, Al₂O₃ 0.21, Fe₂O₃ 0.03, FeO none, MnO 0.007, CaO 14.81, MgO 11.72, K₂O + Na₂O 0.20, H₂O₂ 44.81, Cl none, SO₃ none, H₂O⁻ 0.55 and H₂O⁺ 24.15%. Samples from other locations contained 48.87-49.04 and 30.20% B₂O₃.
A. A. Bochtlik

GENERAL LITERATURE

GENERAL INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND SERIES PROCESSES AND PROPERTIES INDEX

180 AND 2TH SERIES

Be *a-2*

Glaserite in the Inder (lake). A. N. VOLKOV
 (Kali, 1937, 6, No. 7, 14-23).—The nature of the mineral deposits on the north shore of the Inder lake (Uralsk) is described with the aid of analyses of bore-hole samples. Glaserite begins to occur at a depth of about 170 ft., below the gypsum strata. The thickness of the deposit is about 24 ft. and the average $K_2Na(SO_4)_2$ content is 80-08%, the residue consisting mainly of halite with smaller amounts of gypsum and $MgSO_4$. Below the glaserite layer there are deposits of sylvinite the purity of which varies with the depth.

D. G.

COMMON ELEMENTS

COMMON VARIABLES INDEX

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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FROM STAVINSKY

RELATIONS

FROM HOWARD

FROM STAVINSKY

RELATIONS

FROM HOWARD

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101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

CA

18

Salts of Inder Lake. A. N. Volkov. *Izv. Inst. Halergii* 1938, No. 3, 29-67; *Khim. Referat. Zhur.* 2, No. 4, 46 (1939); cf. C. A. 32, 60831. — The main mineral component of the salt waters which feed Inder Lake is NaCl; there are smaller amounts of K salts, MgCl₂ and MgSO₄. The composition of the water of Inder Lake is NaCl 10.0-23.0, KCl 0.10-2.1, MgCl₂ 1.74-4.57, MgSO₄ 0.35-0.49, CaSO₄ 0.01-0.3 and Ca(HCO₃)₂ 0.05-0.13%. In a crevice in the center of the lake, NaCl (varying from 88 to 90%) is the main component of the salt mass to a depth of 33 m. There are also present 0.03-0.23% of KCl, 0.002-0.04% of KBr and 0.007-0.009% of B₂O₃. The total supply of salt is estimated at 1500 million cu. m. W. R. Henn

ASST. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION

VOLKOV, A. N.

20565 VOLKOV, A. N. O mezozoye severnoy chasti turgynskoy vpadiny. Izvestiya akad. nauk kazakh SSR, No. 70, Seriya geol., vyp. 11, 1949 s. 104-12. - Rezyume na kazakh. yaz.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva - 1949

VOLKOV, A.N.

Outlook of evaluation of bauxite ore regions in relation to
genesis of alumina solutions. A. N. Volkov. *Izvest. Akad.
Nauk Kazakh S.S.R., Ser. Geol.* No. 20, 178-186 (1955). - A
review with 17 references. Gladys S. Macy

VOLKOV, A.N.

Formation of bauxites from insoluble limestone residues.
Izv.AN Kazakh.SSR. Ser.geol. no.24:89-94 '56. (MLRA 10:2)

(Bauxite) (Limestone)

VOLKOV, A.H.

Is the chemogenic genesis of bauxites possible? *Izv. AN Kazakh.*
SSR. Ser. geol. no. 4:106-114 '57. (MIRA 11:3)
(Bauxite)

VOLKOV, A.N.

SATPAYEV, K.I.; BORUKAYEV, R.A.; AKHMEDSAFIN, U.M.; BOK, I.I.; KUSHEV, G.L.;
SERGIYEV, N.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; MONICH, V.K.;
LOMONOVICH, I.I.; LAVROV, V.V.; MEDOYEV, G.TS.; NOVOKHATSKIY, I.P.;
BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; KOLOTILIN, N.F.; ZHILINSKIY,
G.B.; KAYUPOV, A.K.; KAZANLI, D.N. ; SATPAYEVA, T.A.; ABDULKABIROVA,
M.A.; GAZIZOVA, K.S.; VREYTS, B.I.; KHAYRUTDINOV, D.Kh.; MUKHAMEDZHANOV,
S.M.; CHOLPANKULOV, T.Ch.; PARSHIN, A.V.; TAZHIBAYEVA, P.T.; YANULOVA,
M.K.; BYKOVA, M.S.; VOLKOV, A.N.; BOLGOV, G.N.; MITRYAYEVA, N.M.;
CHOKABAYEV, S.Ye.; KUNAYEV, D.S.; YARENSKAYA, M.A.; REBROVA, T.I.

Tireless explorer of the depths of the earth's crust; on the 65th
birthday and 40th anniversary of the scientific engineering ac-
tivities of Academician M.P. Rusakov. Vest. AN Kazakh. SSR 13
no.12:96-97 D '57. (MIRA 11:1)

(Rusakov, Mikhail Petrovich, 1892-)

VOLKOV, A. N.: Master Tech Sci (diss) -- "The principles and selection of the basic parameters for rock drilling machines for the mines of the Prokop'-yevsk-Kiselevsk area of the Kuzbass". Tomsk, 1958. 9 pp (Min Higher Educ USSR, Tomsk Order of Labor Red Banner Polytech Inst im S. M. Kirov), 150 copies (KL, No 12, 1959, 128)

VOLKOV, A. N.

"Kazakhstan Bauxites and Their Origin" p. 393

Mineralogy and Origin of Bauxites, Moscow, Izd-vo AN SSSR (otd. geologo-geograf. nauk) 1958, 488pp.

This collection of articles by various authors on the mineralogy and geochemistry of bauxites appeared as a result of 1955 conf. on the origin of bauxite (Chairman, Acad. N. M. Stakhov)

ALIMOV, O.D., dots.; VOLKOV, A.N., inzh.; BELAN, N.A., inzh.

Present day techniques of hard heading in the Prokop'yevsk-Kisilevsk area and trends toward an over-all mechanization. Izv. vys. ucheb. zav.; gor. zhur. no. 6:42-54 ' 58. (MIRA 12:1)

1. Tomskiy politekhnicheskii institut.
(Kuznetsk Basin--Coal mining machinery)

AUTHORS: Brovko, I.I., Volkov, A.N., Engineers SOV-118-58-8-2/24

TITLE: Experimental Exploitation of the "KS-2m" Combine Operation Machine in the Kuzbass Mines (Opytnaya ekspluatsiya kombayna KS-2m na shakhtakh Kuzbassa)

PERIODICAL: Mekhanizatsiya trudoymkikh i tyazhelykh robot, 1958, Nr 8, pp 6-8 (USSR)

ABSTRACT: The "KS-2m" coal combine operation machine was built in the Anzherskiy plant according to the designs of the Kuznetskiy filial Giprouglemasha (The Kuznetsk Branch of the Giprouglemash). It was tested in mines of the Kuzbass. It was designed for the mechanization of extracting, loading and delivery operations, in the exploitation of 1.2 - 2 m thick slanted coal seams. Its average productivity was from 10,800 to 14,230 tons a month. Detailed informations on its construction and power requirements are given. It was also found that almost all parts of the combine must be reinforced, changed or rebuilt. There are 2 tables and 1 figure.

1. Mining industry--USSR 2. Mines--Equipment

Card 1/1

VOLKOV, A.N.

Geology of Amangel'dy deposits of bauxites and refractory
clays. Trudy Inst' geol.nauk AN Kazakh.SSR no.2:3-35 '59.
(MIRA 13:4)

(Amangel'dy District--Geology)

VOLKOV, A. N.

Factors governing the formation of bauxites. Trudy Inst.geol.
nauk AN Kazakh.SSR no.2:104-128 '59. (MIRA 13:4)
(Bauxite)

BROVKO, I.I., inzh.; VOLKOV, A.N., inzh.

Experimental use of KS-2M plowing arrangement in Kuznetsk Basin
mines. Ugol' 34 no.1:41-46 Ja '59. (MIRA 12:1)
(Kuznetsk Basin--Coal mining machinery--Testing)

40035

S/258/62/002/002/014/018

1028/1228

10.6100

AUTHOR: Volkov, A. N. (Moscow)

TITLE: Determination of the longitudinal rigidity of corrugated shells relative to syphon calculation

PERIODICAL: Inzhenernyy zhurnal, v. 2, no. 2, 1962, 368-372

TEXT: A simplified method is proposed for the calculation of the longitudinal rigidity of sylphones, defined by $\lambda = P/\Delta$ (Δ = longitudinal displacement of the shell under the action of the external load P). The calculation of the rigidity of the corrugated shell is replaced by the calculation of the rigidity of a longitudinal strip of unit width, thus simplifying considerably the problem: a geometrical criterion of the applicability of this method is determined. The calculation is based on the Castellano energetic principle, stating that the deformation produced by a force in the direction of its action is equal to the partial derivative of the energy of deformation by this force. A formula is derived for λ_x , and the geometrical characteristics, of which it is a function, are determined for the basic elements of the strip: a straight line and a circular arc. The results are compared with those obtained by other authors and with experimental data. The formula proposed by the author gives results nearest to the experimental ones. There are 5 figures and 2 tables.

f

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics AS USSR)

SUBMITTED: April 7, 1961

Card 1/1

VOLKOV, A.B.

Effect of hydrogen sulfide water on the resorption capacity and permeability of skin capillaries. Trudy Stal.med.inst. 21:137-140
'56 (MIRA 11:8)

(CAPILLARIES--PERMEABILITY)
(HYDROGEN SULFIDE--PHYSIOLOGICAL EFFECT)

Volkov, A.N.

RYZHKOV, T.G.; VOLKOV, A.N. (Sochi)

Methodology for an experimental study of the effect of Matsesta
public baths (hydrogen sulfide) on experimental cholesterol
atherosclerosis. Vrach.delo supplement '57:94 (MIRA 11:3)
(HYDROGEN SULFIDE--PHYSIOLOGICAL EFFECT)
(ARTERIOSCLEROSIS)

VOVKOV, A.N.
RYZHKOVA, T.G.; VOLKOV, A.N.

~~Effect of Patsesta~~ hydrogen sulfide baths on cholesteremia and the development of experimental cholesterol atherosclerosis in rabbits. Vop.kur.fizioter. i lech. fiz. kul't. 23 no.1:3-7 '58. (MIRA 11:3)

1. Iz Sochinskogo sanatoriya imeni K.Ye.Voroshilova (nach. Ye.D. Bulashevich, nauchnyy rukovoditel' - doktor meditsinskikh nauk K.Yu.Turgel')

(CHOLESTEROL)

(MINERAL WATERS, SULFUROUS--PHYSIOLOGICAL EFFECT)

VOLKOV, A.N.
VOLKOV, A.N.

Effect of hydrogen sulfide baths on the permeability of the skin capillaries. Vop.kur.fizioter. i lech.fiz.kul't. 23 no.1:12-14 (MIRA 11:3) '58.

1. Iz sanatoriya imeni K.Ye.Voroshilova v Sochi (nach. Ye.D.Bulashovich, konsul'tant - prof. I.A.Oyvin)
(MINERAL WATERS, SULFUROUS--PHYSIOLOGICAL EFFECT)
(CAPILLARIES--PERMEABILITY)

VOLKOV, A. N., Candidate Med Sci (diss) -- "Transfusion of blood plasma in the complex treatment of acute dysentery in young children, and an epidemiological evaluation of the results". Gor'kiy, 1959. 11 pp (Gor'kiy State Med Inst im S. M. Kirov), 200 copies (KL, No 22, 1959, 121)

VOLEKOV, S.S., kadm. tekhn. nauk; FERSOV, V.F., inst.

Results of the industrial tests of an experimental specimen of
the A-3 unit. Sbor. KuzNETSI no.1022-18 '64. (MIRA 18:9)

BELAN, N.A., inzh.; MAKSIMOV, V.A., inzh.; VOLKOV, A.H., kand. tekhn.
nauk; GURKOV, K.S.

Development of actuating mechanisms of cutter-loaders. Sbor.
KuzNIUI no.10:151-164 '64. (MIRA 18:9)

VOLKOV, A.N., kand. tekhn. nauk

Development of the theory of shells and plates; 5th all-Union
conference. Vest. AN SSSR 35 no.5:100-101 My '65. (MIRA 18:6)

BOGDANOVA, A.V.; KUGATOVA-SHEMYAKINA, G.P.; VOLKOV, A.N.; ARAKELYAN, V.G.

Synthesis of diacetylenic alcohols, glycols, and their derivatives
based on diacetylene. Izv.AN SSSR. Ser.khim. no.1:174-176 Ja
'64. (MIRA 17:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

VOLKOV, A.N. (Moskva)

Contact problem of the coupling of a toroidal shell with an
annular plate. Inzh. zhur. 3 no.2:331-336 '63. (MIRA 16:6)

(Elastic plates and shells)

VOLKOV, A.N.; BOGDANOVA, A.V.; SHOSTAKOVSKIY, M.F.

Vinyl compounds in diene synthesis. Report No.11: Diene synthesis
of vinyl ethers and thioethers with isoprene. Izv.AN SSSR.Otd.khim.
nauk no.7:1280-1284 J1 '62. (MIRA 15:7)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ethers) (Isoprene) (Vinyl compounds)

KOTLYAREVSKIY, I.L.; VOLKOV, A.N.; VASILEVSKIY, S.F.

High-temperature alkylation of isobutane and propane by ethylene.
Trudy Vost.-Sib.fil.AN SSSR no.38:149-151 '61. (MIRA 15:4)
(Propane) (Ethylene)

YOLKOV, A.N.

Effect of localized bathing in Matsesta water on the appearance of
skin hyperemia in people awake and under medicated sleep and narcosis.
Vop. kur., fizioter. i lech. fiz. kul't. 26 no.5:411-414 S-O '61.

(MIRA 14:11)

(HYPEREMIA)

(MATSESTA--MINERAL WATERS, SULFUROUS)

(SLEEP THERAPY)

SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; VOLKOV, A.N.

Vinyl compounds in diene synthesis. Part 7: Diene synthesis
of vinyl ethers and thioethers with 2,3-dimethyl-1,3-butadiene.
Zhur.ob.khim. 31 no.7:2096-2100 J1 '61. (MIRA 14:7)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.
(Vinyl compounds) (Butadiene)

GRINEVICH, K.P.; ZHINKIN, D.Ya.; ZUBKOV, I.A.; POPOVA, S.L.; VOLKOV, A.N.

Polymer materials in the fishing industry. Plast.massy no.11:18-19
'60. (MIRA 13:12)

(Polymers)

(Fishing—Implements and appliances)

VOLKOV, A.N.; KLABUKOV, A.M.; POPOV, Yu.P.

Blanking photoelectric multipliers with microsecond pulses. Prib.
i tekhn. eksp. no.2:68-71 Mr-Ap '60. (MIRA 13:7)

1. Fizicheskii institut AN SSSR.
(Photoelectric multipliers)

82886

24.6810

S/120/60/000/02/017/052

AUTHORS: Volkov, A.N., Klabukov, A.M. ^{E192/E382} and Popov, Yu.O.

TITLE: Shutting-off the Photomultipliers by Means of Microsecond Pulses 21

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 2, pp 68 - 71 (USSR)

ABSTRACT: The experiments with the Soviet photomultipliers, types ^{2b} FEU-19M and FEU-29, ^{2c} showed that under static conditions they can be completely cut off by applying a voltage of +50 V with respect to the control diaphragm. However, under pulsed conditions the photomultipliers cannot be fully re-opened for a duration of about 15 μ s. This is due to the poor conductivity of the photo cathode. Consequently, a method of shutting-off the multipliers by applying suitable voltages to their dynodes was investigated. The shutting-off characteristics of various dynodes were first measured under static conditions. For this purpose a photomultiplier with its crystal was illuminated by a γ -source (Co^{60}) and the counting rate of the pulses produced by the γ -rays was observed at a constant amplifier

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Shutting-off the Photomultipliers by Means of Microsecond Pulses

threshold. The voltage of the control dynode was varied by a potentiometer divider network in such a way that if the gap above the control dynode received a voltage increase of U , the voltage of the lower gap was reduced by U ; this simulated the application of a pulse to the dynode. It was found that the best results were obtained if the shutting-off is done simultaneously at the second and sixth dynodes of the system. The shutting-off process under pulsed conditions was investigated by means of a 50-channel time analyser having a channel width of $0.476 \mu s$. The diagram of the generator producing the shutting-off pulses is shown in Figure 3; this also illustrates the voltage divider for the photomultiplier. Figure 4a gives the results of the shutting-off effect of a pulse having an amplitude of 35 V. From this it is seen that FEU-19M and FEU-29 photomultipliers can be controlled by means of comparatively short pulses in such a way that the after-effects are eliminated in less than $1 \mu s$. A similar shutting-off system was employed by other authors (Ref 5).

Card2/3

As regards the Soviet photomultiplier FEU-S it was found

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Shutting-off the Photomultipliers by Means of Microsecond Pulses

that they could not be cut off by means of the dynodes. However, this could be achieved simply by applying a voltage of -3 V to the focusing rings. Again a fast operation was possible. The photomultiplier FEU-12 could be shut off by means of the grid, cathode or one of the dynodes. It appeared, however, that the after-effects could not be rapidly eliminated. The authors are indebted to F.L. Shapiro and I.V. Shtranikh for their interest in this work and for valuable advice and also to A.I. Okorokov and Ye.D. Bulatov for testing the multipliers. There are 4 figures and 4 references, 1 of which is English, 4 Soviet; one of the Soviet references is translated from English.

ASSOCIATION: Fizicheskiy institut AN SSSR (Institute of Physics of
the Ac.Sc., USSR)

SUBMITTED: February 9, 1959

Card 3/3

VOIKOV, A.N. (Moskva)

Contact problem of conjugation of a cylindrical shell with
open and closed profile. Inzh.sbor. 27:179-184 '60.

(MIRA 13:6)

(Elastic plates and shells)

SATPAYEV, K.I.; POLOSUKHIN, A.P.; BAISHEV, S.B.; CHOKIN, Sh.Ch.; BORUKAYEV, R.A.;
AKHMEDSAFIN, U.M.; KUSHEV, G.L.; SHCHERBA, G.N.; MONICH, V.K.; MEDOYEV,
G.TS.; LAVROV, V.V.; BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; ZHILINSKIY,
G.B.; KAYUPOV, A.K.; KAZANLI, D.N.; KOLOTILIN, N.F.; MUKHAMEDZHANOV, S.M.;
SATPAYEVA, T.A.; VEYTS, B.I.; GAZIZOVA, K.S.; CHOLPANKULOV, T.Ch.;
PARSHIN, A.V.; BYKOVA, M.S.; MITRYAYEVA, N.M.; VOLKOV, A.N.; CHAKABAYEV,
S.Ye.; YARENSKAYA, M.A.; KHAYRUTDINOV, D.Kh.

On the 60th anniversary of the birth of I.I. Bok, Academician of the
Academy of the Kazakh S.S.R. Vest. AN Kazakh. SSR 14 no.10:95-96
0 '58. (MIRA 11:12)

(Bok, Ivan Ivanovich, 1898-)

VOLKOV, A.P.

YANSON, A.I., kandidat tekhnicheskikh nauk; VOLKOV, A.P., inzhener.

Wood-block flooring made of waste materials. Sbor.mat. o nov.
tekh. v.stroi. 17 no. 1:25-29.'55. (MLRA 8:2)
(Parquet floors)

Volkov, A. P.

USSR / Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi R

Abstr Jour: Ref Zhur-Biologiya, No 16, 1958, 74200

Author : Len'kov, V. I., Uliyanov, S. D., Sakhalinskiy, D. S., Romanova, V. P., Bekchintayeva, R. S., Volkov, A. P.

Inst : Kazakhstan Scientific-Research Veterinary Institute

Title : On the Role of Ceratophalus in Spring Death of Sheep in Southern Kazakhstan

Orig Pub: Tr. Kazakhsk. n.-i. vet. in-ta, 1957, 9, 319-323

Abstract: The authors' investigations show that ceratophalus is not the cause of a disease in the sheep investigated in southern Kazakhstan in the spring period and which proceeds with characteristics of infection.

Card 1/2

Abstr Jour: Ref Zhur-Biologiya, No 16, 1958, 74200

tious enterotoxemia.

Card 2/2

VOLKOV, Aleksandr Pavlovich; YAGOTINTSEV, Georgiy Nikolayevich;
KHUDYAKOV, V.L., red.; FEDOROV, B.M., red.izd-va; PERAKHINA,
N.L., tekhn.red.

[Instruments at the Kostopol' Housing Construction Combine]
Instrumental'noe khoziaistvo na Kostopol'skom domostroitel'nom
kombinate. Moskva, Goslesbumizdat, 1960. 40 p. (MIRA 13:7)
(Woodworking machinery)

FLEROVA, Ye.A.; STAVROVSKIY, A.Ye.; SHALAYEVA, V.F.; YELAGIN, V.D.,
redaktor; PROFERANSOVA, N.V., redaktor; VOLKOV, A.P., tekhnicheskii
redaktor

[Experience in teaching biology; a collection of articles] Opyt
prepodavaniia biologii; sbornik statei. Pod red. E.A.Flerovoi,
A.E.Stavrovskogo i V.F.Shalaeva. Moskva, 1956. 254 p. (MLRA 9:10)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov
obucheniya
(Biology--Study and teaching)

VOLKOV, Aleksandr Pavlovich; CHERTKOV, Vasilii Vasil'yevich;
MAZUR, M.V., inzhener, redaktor; FEDOROVA, T.N., redaktor;
GLADKIKH, N.N., tekhnicheskii redaktor

[Multilayer gluing of wooden construction elements; the practices
of the Kostopol Housing Combine] Mnogosloinaiia skleika
dereviannykh stroitel'nykh detalei; iz opyta Kostopol'skogo
deomostroitel'nogo kombinata. Pod red. M.V. Mazura. Moskva,
Gos. izd-vo lit-ry po stroit. materialam, 1956. 109 p.

(MLRA 10:5)

(Building, Wooden) (Gluing)

KABANOV, Aleksandr Nikolayevich, professor; BELYAYEV, K.I., redaktor;
VOLKOV, A.P., tekhnicheskiy redaktor

[Sketch of the physiology of higher nervous activity] Ocherk
fiziologii vysshei nervnoi deiatel'nosti. Moskva, Izd-vo Akademii
pedagog. nauk RSFSR, 1956. 146 p. (MLRA 9:9)
(PSYCHOLOGY, PHYSIOLOGICAL)

ANASHKIN, I.A., kapitan 1 ranga; BARABOLYA, P.D., polkovnik yuridicheskoy sluzhby; VOLKOV, A.S., inzh.-kapitan 1 ranga; VOROB'YEV, A.P., kapitan 1 ranga; VASIL'YEV, I.V., kapitan 1 ranga zapasa; V'YUNZHEKO, N.P., kand.voyenno-morskikh nauk, kapitan 1 ranga; GENKIN, A.L., dotsent, kand.tekhn.nauk, inzhener-kontr-admiral; YEREMENKO, B.Ya., kapitan 1 ranga; ZVEREV, B.I., kand.istor.nauk, mayor; KAZANKOV, A.A., kapitan 1 ranga; KOZIN, K.K., kapitan 1 ranga zapasa; KOLYADA, N.I., kapitan 1 ranga zapasa; KULINICH, D.D., inzh.-kapitan 1 ranga; LOBACH-ZHUCHEKO, M.B., dotsent, inzhener-kapitan 2 ranga zapasa; MASHAROV, A.I., polkovnik zapasa; MYASISHCHEV, V.I., inzhener kontr-admiral; PETROV, L.G., kapitan 1 ranga v otstavke; PROKOF'YEV, V.M., kapitan 1 ranga; POZNAKHIRKO, A.S., kapitan 1 ranga zapasa;
(Continued on next card)

ANASHKIN, I.A.---(continued) Card 2.

PYASKOVSKIY, G.M., polkovnik; SINITSYN, N.I., polkovnik. Prinimali uchastiye: ANDREYEV, V.V., kapitan 1 ranga; IVANOV, V.P., inzhener-kapitan 2 ranga; CHERNOUS'KO, L.D., inzhener-kapitan 1 ranga; SHIKANOV, Ye.P., inzhener-kapitan 2 ranga. FADEYEV, V.G., vitse-admiral zapasa, glavnyy red.; GERNGROSS, V.M., kapitan 1 ranga zapasa, red.; SPAROV, N.N., kapitan 1 ranga v otstavke, red.; SOKOLOVA, G.F., tekhn.red.

[Marine dictionary] Morskoi slovar'. Moskva, Voen.izd-vo M-va obor. SSSR. Vol.2. 0 - IA. 1959. 440 p. (MIRA 12:12)
(Naval art and science--Dictionaries)
(Merchant marine--Dictionaries)

VOLKOV, A.S., inzhener; SMIRNOV, M.S., inzhener.

Investigating the causes of external surface destruction of
diesel engine cylinder bushes. Vest.mash.36 no.11:31-33 N '56.
(MIRA 10:1)
(Diesel engines) (Corrosion and anticorrosives)

VOLKOV, Anatoliy Semenovich, assistant; OGORODNEYCHUK, Ivan Filippovich,
kand. tekhn. nauk, starshiy prepodavatel'

Circuit for the wireless control of switches from a moving
electric locomotive. Izv. vys. ucheb. zav.; elektromekh.
3 no. 6:139-143 '60. (MIRA 15:5)

1. Khar'kovskiy gornyy institut.
(Railroads--Electronic equipment)
(Railroads--Switching)

BUTKOV, N.A., prof.; VOLKOV, A.S., inzhener-kapitan 1-go ranga; OSIPOVA,
L.M., inzh.; PERCHOL, A.F., kand.tekhn.nauk

Protection of cylinder bushings and internal combustion engine
blocks against corrosion. Mor. sbor. 46 no.7:73-78 JI '63.

(MIRA 16:11)

VOLKOV, A.S., kand. tekhn. nauk, inzh.-kapitan 1-go ranga.

For diesel specialists. Mor. sbor. 47 no.3:90-94 Mr '64. (MIRA 18:7)

L 6724-65 EWT(1)/E' (k)/EWT(m)/T WWP(j)/EWP(b) PZ-6 IJP(c)/AFWL/RAEM(c)/
ASD(a)-5/ESD(dp)/ESD(c)/EEM(t) AT/ID
ACCESSION NR: AP4046469 S:/0032/64/030/010/1230/1232

AUTHORS: Volkov, A. S.; Galavonov, V. V.; Rzayev, M. A.

TITLE: Determining impurity concentrations in the p-layer of p-n junctions 21

SOURCE: Zavodskaya laboratoriya, v. 30, no. 10, 1964, 1230-1232

TOPIC TAGS: semiconductor device, thermal EMF, temperature dependence

ABSTRACT: The ordinary way to measure impurity (current carrier) concentration in a recrystallized layer is to measure the thermal EMF. This involves errors, however, because of ³imprecision in measuring temperature gradient and value of the thermal EMF. This imprecision results from the effect of the p-n junction and of the shunting effect of the base material. Since the inversion temperature of the thermal EMF depends on acceptor concentration in a crystal, the authors have devised a means of using this property to measure concentration. The inversion temperature of a test sample is compared with that of a standard p-type specimen having known concentration. The setup is illustrated in Fig. 1 on the Enclosure. Measurements are made under nonsteady conditions, which prevents the thin p-layer from heating all the way through and prevents creation of a tempera-

Card 1/2

L 6724-65

ACCESSION NR: APh046469

ture gradient in the vicinity of the p-n junction. By this means the effect of the junction is eliminated. Since absolute values of temperature gradient of the thermal EMF need not be known, the accuracy of measurement is greatly increased. Experimental results are in good agreement with computed results. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR
(Physico-technical Institute, Academy of Sciences SSSR)

SUBMITTED: 00

ENCL: 01

SUB CODE: EC

NO REF SOV: 001

OTHER: 002

Card 2/3

L 51307-65 EEC(b)-2/EWT(1)/T P1-4 IJP(c) GG

2 5
2 4
13

ACCESSION NR: AP5014614

UR/0181/65/007/006/1908/1910

AUTHOR: Berkaliyev, A. D.; Volkov, A. S.; Galavanov, V. V.; Nasledov, D. N.

TITLE: Investigation of the lifetime of nonequilibrium current carriers and the noises in p-InSb.

SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1908-1910

TOPIC TAGS: current carrier, current carrier lifetime, nonequilibrium current carrier, p InSb single crystal

ABSTRACT: An investigation is made at 78K of p-InSb single crystals (concentration of holes, 10^{12} to 10^{13} cm⁻³) obtained by zone melting. The specimens used were 6 x 1.5 x 0.5 mm. To determine the lifetime of nonequilibrium current carriers, stationary and nonstationary photoconductivity and noises were measured. In measuring stationary photoconductivity, the specimen was illuminated with a modulated light at 500 cps. A filter transmitted a light spectrum from 1.5 to 2.5 μ . In measuring the relaxation of photoconductivity, a GaAs diode fed from a GIP-2 generator was used as an inertia-free source for the radiation of rectangular light pulses ($\tau < 10^{-9}$ sec). The dependence of electroconductivity and Hall coefficient on temperature, the dependence of stationary photoconductivity on temperature, and spectral density of current noises in a frequency range from 2×10^2 to 2×10^4 cps
Card 1/2

L 51307-65

ACCESSION NR: AP501461¹

at different temperatures were determined for a specimen with a concentration of current carriers of $4 \times 10^{12} \text{ cm}^{-3}$ at $T = 78\text{K}$. An i/f type noise was observed at low frequencies, while at high frequencies a generation-recombination noise prevailed. The lifetime at $T = 78\text{K}$ was 2×10^{-5} sec without additional illumination of the specimen and $(1-1.5) \times 10^{-5}$ sec with constant illumination of the specimen. (orig. art. has: 2 formulas and 2 figures. [JA])

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad
(Physicotechnical Institute, AN SSSR)

SUBMITTED: 12Sep64

ENCL: 00

SUB CODE: 50

NO REF SOV: 000

OTHER: 004

ATD PRESS: 4016

B. J.
Card 2/2

ACC NR: AP6030150

(N)

SOURCE CODE: UR/0120/66/000/004/0164/0166

AUTHOR: Volkov, A. S.; Galavanov, V. V.

ORG: Physico-Technical Institute, AN SSSR, Leningrad (Fiziko-tehnicheskiy institut AN SSSR)

TITLE: A method of investigating the nonequilibrium conductivity of photoelectric elements with low inertia

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 164-166

TOPIC TAGS: photoelectric detection, photoelectric cell, semiconductor material, semiconductor crystal, semiconductor device

ABSTRACT: The kinetics and the frequency dependence of InSb crystal photoconductivity were investigated by using semiconductor sources of noncoherent radiation consisting of GaAs, InAs and InSd diodes with a maximum radiation of 0.85, 3.5 and 5.3 microns, respectively. This group of diodes made it possible to investigate surface effect during the recombination process. Values of time constants are obtained from the relaxation curves and from the frequency dependence of photoconductivity. Good agreement was found with data published in the literature. The authors express their gratitude to D. N. Nasledov for his interest in the work and also to B. V. Tsarenkov and N. P. Yesin for supplying them with GaAs and InAs diodes. Orig. art. has: 3 figures.

SUB CODE: 20,09/

SUBM DATE: 23Jun65/

ORIG REF: 001/

OTH REF: 003

UDC: 539.293:535.215.12

Card 1/1

DEPARMA, V.N., VOLKOV, A.S.

Rural Electrification

Rural electrification in the U.S.S.R. Geog.v shkole, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

VOLKOV, A.S.

AID P - 633

Subject : USSR/Electricity
Card 1/1 Pub. 27 - 2/34
Authors : Zlatkovskiy, A. P., Kand. of Tech. Sci. and
Volkov, A. S., Eng., Moscow
Title : Electrification at the All-Union Agricultural Exhibition
Periodical : Elektrichestvo, 9, 6-14, S 1954
Abstract : A description of the development of rural electrification
is given with a presentation of exhibits illustrating prog-
ress in that field. 13 diagrams and photographs.
Institution : None
Submitted : Ag 10, 1954

SHMAKOVA, V.I.; YUZHAKOVA, N.N.; REZNICHENKO, V.G.; GLEBOV, I.T.; VOLKOV, A.S.;
URZLYA, N.Ye.; BEKHTEREV, P.A.; RYS', G.I.; VORONINA, M.N.; GVOZDINTS-
KIY, I.N.; VARAKSINA, M.P.; MASTERSKIKH, M.A.; GONCHAROVA, V.A.;
BICHEVINA, A.N.; SOROKIN, M.A., red.; GRIN', Ye., tekhn.red.

[Economy of Altai Territory during the past 40 years; a statistical
manual] Narodnoe khoziaistvo Altaiskogo kraia za 40 let. Sovetskoi
vlasti; statisticheskii sbornik. Barnaul, Altaiskoe knizhnoe izd-vo,
1957. 110 p. (MIRA 11:3)

1. Altayskiy kray. Statisticheskoye upravleniye. 2. Statisticheskoye upravleniya Altayskogo kraya (for all except Sorokin, Grin')
1. 3. Nachal'nik Statisticheskogo upravleniya Altayskogo kraya
(for Sorokin)
(Altai territory--Statistics)

14(5)

SOV/132-59-7-7/17

AUTHORS: Litvinov, N.N., Kardysh, V.G., Kornev, A.M. and
Volkov, A.S.

TITLE: On the Automation of Hoisting-Lowering Operation
During Drilling

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 7, pp 25-30 (USSR)

ABSTRACT: The authors are dealing with the problem of automation and mechanization of all basic and auxiliary operations during the drilling of bore-holes. All these operations, made with ZIF-1200A, ZIF-650A, ZIF-300 and KAM-500 drilling rigs (Table 1), take about 50% of the working time according to data of the trest Artemuglegeologiya (Artemuglegeologiya Trust). A.N. Bakhchisaraytsev says that about 11.5% of the working time can be saved by an adequate distribution of duties among the members of a drilling brigade. As in the hoisting-lowering operations all basic operations follow each other, M.M. Andreyev proposes a scheme (Figure 1) in which some of these operations are executed simul-

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SOV/132-59-7-7/17
On the Automation of Hoisting-Lowering Operation During Drilling

taneously. This will save 12 to 15% of the working time. It was also calculated that the reduction in half of the time needed for all hoisting-lowering operations could save about 250 million rubles from the general expenses foreseen for all drilling operations in the Soviet oil industry for 1960. Giproneftemash constructed the ASP-1, ASP-2 and ASP-3 aggregates which completely mechanize all basic hoisting-lifting operations. The use of the ASP-1 aggregate on the oil well Nr 1100 of the trest 'Tuymazaburneft' (the 'Tuymazaburneft' Trust) stepped up all these operations by 32.1%. The authors say that abroad, and particularly in the USA, the automation and mechanization of hoisting-lowering operations is progressing slowly, though an American firm, Reich Brothers, produces equipment that mechanize some of the operations. The authors further propose different schemes of partial automation.

Card 2/3

SOV/132-59-7-7/17
On the Automation of Hoisting-Lowering Operation During Drilling

There are 3 sets of diagrams and 1 table.

ASSOCIATION:TsKB

Card 3/3

VOLKOV, Aleksandr Spiridonovich; KALININ, Anatoliy Georgiyevich;
BRONZOV, Anatoliy Samsonovich. Prinsipal uchastiye GRIGOR'YEV,
Yu.L., inzh.; ISAYEVA, V.V., ved. red.; POLOSINA, A.S., tekhn.
red.

[Drilling pipes and their joints; a manual] Buril'nye trubyy i ikh
soedineniia; spravochnoe rukovodstvo. Moskva, Gostoptekhizdat,
1962. 125 p. (MIRA 15:7)

(Boring machinery)

VOLKOV, A.S.; SAMGIN, Yu.S., etv. red.; KHAYNOV, S.V., nauchn.
red.

[Collection of the best efficiency suggestions] Sbornik luchshikh ratsionalizatorskikh predlozhenii. Moskva, Gosgeoltekhizdat, Pt.1. [Boring] burovye raboty. 1963. 65 p. (MIRA 18:2)

1. Russia (1923- U.S.S.R.) Geologicheskii komitet. Otdel nauchno-tekhnicheskoy informatsii.

MATONIN, P.K., inzh.; VOLKOV, A.S., inzh.; VAL'SHTEYN, G.I., inzh.

Karaganda Basin miners fight for improved mining methods. *Shakht. stroi.* 7 no.4:1-4 Ap '63. (MIRA 16:3)

1. Karagandinskiy ugol'nyy kombinat (for Matonin, Volkov). 2. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut (for Val'shteyn).

VOLKOV, Spiridon Arkhipovich; VOLKOV, Aleksandr Spiridonovich;
VOZDVIZHENSKIY, B.I., red.; MAKEYEV, V.I., red. 12d-va;
GUROVA, O.A., tekhn. red.

[Handbook on exploration boring] Spravochnik po razve-
dochnomu bureniu. Moskva, Gosgeoltekhizdat, 1963. 547 p.
(MIRA 16:12)

(Boring—Handbooks, manuals, etc.)